NC/QC/YPD/2020-21/S-GSB8 Date: 21-06-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**95.65**	80-100
26.50	**83.15**	55-90
9.50	**61.30**	35-65
4.75	**46.25**	25-50
2.36	**18.90**	10-20
0.85	**6.75**	2-10
0.425	**4.05**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Rd.

NEWZEN CONSULTANT Bangalore

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EMAIL:newzen576@gmail.com

Date: 21-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.43%**	Not more than 2.0 %
2.	Liquid Limit, %	**18.66**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.71**	----------
5.	Aggregate Impact Value, %	**28.56**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Rd

Asst. Executive Engineer
Project Division
Yelahanka Zone - 92
BBMP, Bangalore

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-C5 Date: 15-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Rd.

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EMAIL:newzen576@gmail.com

NC/QC/YPPD/2020-21/S-PCC5 **Date: 15-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.15**	0 -20	30- 70
10mm	**31.55**	0 -5	10- 35
4.75mm	**4.10**	------	0- 5

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.30**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.15**	60-95	75-100	85-100	
01.18	**72.65**	30-70	55-90	75-100	
600.mic	**45.80**	15-34	35-59	60-79	
300.mic	**22.60**	5-20	8-30	12-40	
150.mic	**7.55**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Rd

Page No. 1/1,

NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/S-C6 **Date: 17-06-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.16%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.08mm**	Shall not be more than 10 mm
5	Compressive strength f) 3 days (average of three results)	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-2

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-PCC6 Date: 17-06-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Assistant Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.15	0 -20	30- 70
10mm	29.50	0 -5	10- 35
4.75mm	3.80	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.25	60-95	75-100	85-100	
01.18	73.60	30-70	55-90	75-100	
600 mic	45.95	15-34	35-59	60-79	
300 mic	24.30	5-20	8-30	12-40	
150 mic	7.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-2.

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NC/QC/YPD/2020-21/S-C7

Date: 17-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Asst. Executive Engineer Yelahanka Project Division Yelahanka Zone BBMP, Bangalore - 92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03mm**	Shall not be more than 10 mm
5	Compressive strength g) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Rd.

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-PCC7 **Date: 17-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**63.45**	0 -20	30- 70
10mm	**27.90**	0 -5	10- 35
4.75mm	**3.60**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.65**	60-95	75-100	85-100	
01.18	**70.40**	30-70	55-90	75-100	
600 mic	**46.85**	15-34	35-59	60-79	
300 mic	**24.35**	5-20	8-30	12-40	
150 mic	**6.85**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Rd

Asst. Executive Engineer, Yelahanka Division, Bangalore Zone - 92, BBMP

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-C8 Date: 19-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.11 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06mm**	Shall not be more than 10 mm
5	Compressive strength h) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bande Rd

NEWZEN CONSULTANT ★ Bangalore ★

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-PCC8 **Date: 19-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.25	0 -20	30- 70
10mm	31.70	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	94.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.90	60-95	75-100	85-100	
01.18	73.60	30-70	55-90	75-100	
600 mic	45.15	15-34	35-59	60-79	
300 mic	23.70	5-20	8-30	12-40	
150 mic	6.20	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bande Rd

Page No. 1/1,

NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/S-C9 Date: 22-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength i) 3 days (average of three results)	**28.85 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-5

Page No. 1/1,

NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/S-PCC9 **Date: 22-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.15**	0 -20	30- 70
10mm	**28.75**	0 -5	10- 35
4.75mm	**4.15**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.15**	60-95	75-100	85-100	
01.18	**72.65**	30-70	55-90	75-100	
600 mic	**46.35**	15-34	35-59	60-79	
300 mic	**23.90**	5-20	8-30	12-40	
150 mic	**7.05**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-5

NEWZEN CONSULTANT Bangalore

Page No. 1/1,

NC/QC/YPD/2020-21/S-C10 **Date: 24-06-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Received Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength j) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-3.

Page No. 1/1,

NEWZEN CONSULTANT Bangalore K.V.

NC/QC/YPD/2020-21/S-PCC10 Date: 24-06-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.45	0 -20	30- 70
10mm	32.80	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.55	60-95	75-100	85-100	
01.18	74.25	30-70	55-90	75-100	
600 mic	45.90	15-34	35-59	60-79	
300 mic	23.65	5-20	8-30	12-40	
150 mic	7.35	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-3

NEWZEN CONSULTANT Bangalore

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-C11 **Date: 24-06-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Assistant Executive Engineer, Project Division, Yelahanka Zone - 9, BBMP, Bangalore

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.07 mm**	Shall not be more than 10 mm
5	Compressive strength k) 3 days (average of three results)	**28.35 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-4

NEWZEN CONSULTANT Bangalore

Page No. 1/1,

NC/QC/YPD/2020-21/S-PCC11 **Date: 24-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.15	0 -20	30- 70
10mm	32.60	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.15	60-95	75-100	85-100	
01.18	71.60	30-70	55-90	75-100	
600 mic	45.90	15-34	35-59	60-79	
300 mic	23.70	5-20	8-30	12-40	
150 mic	6.55	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-4

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NC/QC/YPD/2020-21/S-C12 Date: 26-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

AE
Asst Executive Engineer
Yelahanka Project Division
BBMP, Bangalore-92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**163 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03 mm**	Shall not be more than 10 mm
5	Compressive strength l) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-5.

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NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/S-PCC12 **Date: 26-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.30**	0 -20	30- 70
10mm	**29.75**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.65**	60-95	75-100	85-100	
01.18	**74.45**	30-70	55-90	75-100	
600.mic	**43.85**	15-34	35-59	60-79	
300.mic	**24.10**	5-20	8-30	12-40	
150.mic	**6.90**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-5.

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NC/QC/YPD/2020-21/S-C13 **Date: 28-06-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.11mm**	Shall not be more than 10 mm
5	Compressive strength m) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-6

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/S-PCC13 **Date: 28-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Venkataraju, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**65.25**	0 -20	30- 70
10mm	**31.75**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.60**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.45**	60-95	75-100	85-100	
01.18	**71.25**	30-70	55-90	75-100	
600.mic	**45.15**	15-34	35-59	60-79	
300.mic	**22.65**	5-20	8-30	12-40	
150.mic	**5.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Road-6

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